0,5 ml carbonate buffer, 0,5 ml $Na^{99m}TcO_4$ solution and 0,1 ml Sn-MDP solution are added. The preparation is left at room temperature for 20 minutes.

Carbonate buffer: The carbonate buffer has a pH of 9,2 and contains 8,4 mg $NaHCO_3$ and 10,6 mg Na_2CO_3 per ml water. It is purged with nitrogen gas for at least 15 minutes before use.

$Na^{99m}TcO_4$ solution: Technetium generator (e.g. Ifetec generator) eluate, diluted to a radioactive concentration of 2 GBq/ml, oxygen free.

Sn-MDP solution: This solution contains 0,131 mg $SnCl_2*2H_2O$ and 0,925 mg MDP (methylene diphosphonate) per ml water. The solution is made freshly before use under continuous nitrogen gas purging.